Initial REMS Approval 03/2011 Most Recent Modification 02/2014

NDA 21-321

EXTRANEAL (icodextrin) Peritoneal Dialysis Solution

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RISK EVALUATION AND MITIGATION STRATEGY (REMS)

I. GOAL(S):

To mitigate the risk of morbidity and mortality associated with the use of non-specific glucose monitors and test strips in patients using EXTRANEAL by:

- Informing the dialysis clinic staff managing the patient's treatment (such as
 peritoneal dialysis nurses) about the drug-device interaction and the potential for
 falsely elevated blood glucose readings in patients using EXTRANEAL.
- Informing patients of the drug-device interaction and the need to alert health care providers of this interaction whenever they receive treatment outside of a dialysis clinic.

II. REMS ELEMENTS:

A. Medication Guide

A Medication Guide will be dispensed with each EXTRANEAL prescription in accordance with 21 CFR 208.24.

B. Elements to Assure Safe Use

1. EXTRANEAL will only be dispensed to patients with documentation of safeuse conditions

- a. Baxter will ensure that EXTRANEAL is only dispensed to patients if there is documentation that the dialysis clinic staff managing the patient's treatment has completed the training on drug-device interactions involving EXTRANEAL. The "Dialysis Clinic Training" on drug-device interactions consists of the following:
 - i. Why EXTRANEAL patients have elevated blood levels of maltose;
 - ii. How maltose interferes with non-specific glucose monitoring systems;
 - iii. How maltose interference with non-specific glucose monitoring systems may result in falsely elevated blood glucose readings;
 - iv. What are the consequences of falsely elevated blood glucose readings;
 - v. The risk of maltose interference with non-specific glucose monitoring systems for up to 14 days following cessation of EXTRANEAL therapy;
 - vi. How to confirm that patients are using glucose-specific monitors and test strips;
 - vii. How to use the Baxter tools that are available to assist with training of dialysis clinic staff, and to assist the dialysis clinic staff with training EXTRANEAL patients;
 - viii. The importance of educating patients to alert health care providers of the drug-device interaction whenever they are admitted to the hospital or in other medical care settings;
 - ix. Information on the EXTRANEAL Patient Kit how it should be used, what it contains, and how patients will receive it;
 - x. Contact information for glucose monitor manufacturers; and
 - xi. Contact information for MedicAlert.
- b. Dialysis clinic staff are responsible for training patients at the timeEXTRANEAL is added to their prescriptions. The patient training includes:
 - i. The importance of verifying that home glucose monitors and test strips are glucose-specific;
 - ii. Why only glucose-specific monitors and test strips should be used;
 - iii. The potential consequences that can result if glucose-specific monitors and test strips are not used;
 - iv. The need to alert health care providers of the potential for glucose monitor interference when admitted to the hospital or in other medical care settings;

- v. The importance of informing caregivers of the potential for falsely elevated glucose readings and the need to communicate this information in an emergency situation on the patient's behalf;
- vi. The risk of glucose monitor interference for up to 14 days after stopping use of EXTRANEAL;
- vii. A review of the EXTRANEAL Patient Kit, which includes the following:
 - 1) "Dear Patient" Letter;
 - 2) EXTRANEAL Patient Training Tool;
 - 3) EXTRANEAL Wallet Card;
 - 4) EXTRANEAL Wearable Item (e.g., a bracelet and/or pendant);
 - 5) Stickers and a magnetic hang tag for patient charts and prominent display in the hospital setting;
 - 6) Letters to hospital staff, including;
 - a. Physicians
 - b. Nurses
 - c. Pharmacists
 - d. Laboratory Services
 - e. Admissions Personnel
 - 7) EXTRANEAL Prescribing Information; and,
 - 8) EXTRANEAL Medication Guide.
- viii. Informing patients that the EXTRANEAL Patient Kit will be delivered directly to the patient's home in parallel with the first delivery of their EXTRANEAL prescription.
- c. If a dialysis clinic's staff have not managed the treatment of a patient using EXTRANEAL within six months of having completed training, Baxter will ensure that the staff are re-trained before EXTRANEAL is dispensed.

The following materials are part of the REMS and are appended:

- EXTRANEAL PD Nurse Training Tool (Attachment 1)
- EXTRANEAL Patient Training Tool (Attachment 2)
- EXTRANEAL Patient Kit (Attachment 3)

C. Implementation System

- 1. Baxter will maintain a database of all dialysis clinics whose staff have been trained and the date training was completed.
- 2. Baxter will maintain a database of all patients who are dispensed EXTRANEAL.
- 3. Baxter will maintain a database of all patients who have received the EXTRANEAL Patient Kit and the date the Patient Kit was received by the patient.
- 4. Baxter will verify that all patients dispensed EXTRANEAL received a Patient Kit, by tracking the shipment of the Patient Kit and obtaining delivery confirmation.
- 5. Baxter will monitor compliance with the EXTRANEAL program to help ensure that EXTRANEAL is dispensed to patients who have received training by their dialysis clinic, by conducting surveys of patients.
- 6. Baxter will update the U.S. country-specific glucose monitor list found at www.glucosesafety.com every six months.
- 7. Based on evaluation of the implementation of elements to assure safe use provided for under Sections B1 above, and in the manner described in the REMS supporting document, Baxter will take reasonable steps to improve implementation of these elements to meet the goals of the REMS.

D. Timetable for Submission of Assessments

Baxter will submit REMS Assessments to FDA February 28, 2012 and annually thereafter. To facilitate inclusion of as much information as possible while allowing reasonable time to prepare the submission, the reporting interval covered by each assessment should conclude no earlier than 60 days before the submission date for that assessment. Baxter will submit each assessment so that it will be received by FDA on or before the due date.

Attachment 1

EXTRANEAL PD Nurse Training Tool

(8 pages)

Baxter



EXTRANEAL (icodextrin) Peritoneal Dialysis Solution

Important Risk Information for All Patients A GUIDE FOR THE PD NURSE

2 | Important Risk Information for All Patients

Important Risk Information for the PD Nurse About **Extraneal** (icodextrin) Peritoneal Dialysis Solution

Dangerous Drug Device Interaction

Only use glucose-specific monitors and test strips to measure blood glucose levels in patients using Extraneal (icodextrin) Peritoneal Dialysis Solution. Blood glucose monitoring devices using glucose dehydrogenase pyrroloquinolinequinone (GDH-PQQ) or glucose-dyeoxidoreductase (GDO)-based methods must not be used. In addition, some blood glucose monitoring systems using glucose dehydrogenase flavin-adenine dinucleotide (GDH-FAD)based methods must not be used. Use of GDH-PQQ, GDO, and GDH-FAD-based glucose monitors and test strips has resulted in falsely elevated glucose readings (due to the presence of maltose, see PRECAUTIONS/Drug/Laboratory Test Interactions). Falsely elevated glucose readings have led patients or health care providers to withhold treatment of hypoglycemia or to administer insulin inappropriately. Both of these situations have resulted in unrecognized hypoglycemia, which has led to loss of consciousness, coma, permanent neurological damage, and death. Plasma levels of Extraneal (icodextrin) and its metabolites return to baseline within approximately 14 days following cessation of Extraneal (icodextrin) administration. Therefore falsely elevated glucose levels may be measured up to two weeks following cessation of Extraneal (icodextrin) therapy when GDH-PQQ, GDO, and GDH-FADbased blood glucose monitors and test strips are used.

Because GDH-PQQ, GDO, and GDH-FAD-based blood glucose monitors may be used in hospital settings, it is important that the health care providers of peritoneal dialysis patients using **Extraneal** (icodextrin) carefully review the product information of the blood glucose testing system, including that of test strips, to determine if the system is appropriate for use with **Extraneal** (icodextrin).

To avoid improper insulin administration, educate patients to alert health care providers of this interaction whenever they are admitted to the hospital.

The manufacturer(s) of the monitor and test strips should be contacted to determine if icodextrin or maltose causes interference or falsely elevated glucose readings. For a list of toll free numbers for glucose monitor and test strip manufacturers, please contact the Baxter Renal Clinical Help Line 1-888-RENAL-HELP or visit www.glucosesafety.com.

Please see additional risk information on page 7 and enclosed prescribing information.

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Indications

Extraneal PD solution is indicated for a single daily exchange for the long (8 to 16 hour) dwell during Continuous Ambulatory Peritoneal Dialysis (CAPD) or Automated Peritoneal Dialysis (APD) for the management of End-Stage Renal Disease (ESRD). Extraneal PD solution is also indicated to improve (compared to 4.25% dextrose) long-dwell ultrafiltration and clearance of creatinine and urea nitrogen in patients with high-average or greater transport characteristics, as defined using the Peritoneal Equilibration Test (PET)

Contraindications

 Extraneal PD solution is contraindicated in patients with a known allergy to cornstarch or icodextrin, in patients with maltose or isomaltose intolerance, in patients with glycogen storage disease, and in patients with pre-existing severe lactic acidosis



4 | Important Risk information for All Patients

Information Regarding the Use of Glucose Monitors and Test Strips

All patients receiving **Extraneal** PD solution may have incorrect blood glucose results when using particular blood glucose monitoring systems.

Use of Extraneal PD solution results in elevated blood levels of maltose, a metabolite of icodextrin. Maltose interferes with glucose monitors that utilize certain enzymes on their test strips, specifically glucose dehydrogenase pyrroloquinolinequinone (GDH-PQQ), glucose-dye-oxidoreductase (GDO) and in some cases, glucose dehydrogenase flavin-adenine dinucleotide (GDH-FAD), resulting in falsely elevated glucose monitor readings. This interference may mask true hypoglycemia or lead to the erroneous diagnosis of hyperglycemia.

- A blood glucose reading that is within the normal range may
 mask low blood sugar, and a patient who is hypoglycemic may
 appear to be euglycemic. This could cause a patient or health care
 professional not to take the appropriate steps to bring the blood
 sugar into a normal range
- A falsely elevated blood glucose reading may make a patient who is euglycemic to appear hyperglycemic, and could cause the patient to get more insulin than needed
- Both of these situations can lead to life-threatening events, including loss of consciousness, coma, permanent neurological damage, and death
- Falsely elevated glucose levels may be measured up to two weeks following cessation of Extraneal (icodextrin) therapy when GDH-PQQ, GDO, and GDH-FAD-based blood glucose monitors and test strips are used

Glucose monitors that utilize GDH-PQQ, GDO, and in some cases GDH-FAD MUST NOT be used for patients using Extraneal PD solution. Blood glucose measurement must be done with a method that does not cause maltose interference with test results. QNLY glucose monitors and test strips that are glucose-specific must be used for patients on Extraneal PD solution. Contact the manufacturer of the glucose monitors and test strips to determine the method that is used. For further information, visit www.glucosesafety.com.



To assist in patient training, Baxter has developed an Extraneal PD Solution Patient Training Tool that contains important risk information about Extraneal PD solution specifically intended for patients.

Baxter recommends
that each patient be
given a copy of the
Extraneal PD Solution
Patient Training Tool
and that all information
in the tool be discussed
with the patient in detail.

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Recommendations for patient training and follow-up regarding glucose monitors and test strips.

- Train the patient and all caregivers on the importance of using only certain monitors and test strips and about the potential consequences if these guidelines are not followed. Instruct them to ensure that any emergency contacts also be made aware of this information
- Use the Extraneal PD Solution Patient Training Tool and Extraneal Patient Medication Guide
 to review the information about glucose monitor and test strip interference, particularly the
 need to alert health care providers outside the dialysis unit (e.g., emergency room, hospital,
 outpatient clinic, physician offices)
- Verify the type of glucose monitor and test strips used by the patient; call or instruct the patient
 to call the manufacturers to verify that the monitor and/or test strips measure only glucose.
 Monitors and test strips that are subject to maltose interference must not be used
- Your PD unit has received a Demonstration Kit, which contains a sample of all the items included in the Extraneal PD Solution Patient Kit. Prior to initiating therapy with Extraneal PD Solution, review the contents of the kit with the patient, and inform them that an Extraneal patient kit will be delivered to their home shortly. Also assist the patient in completing the information on the Wallet Card included in the Extraneal PD Solution Patient Training Tool
- Obtain additional materials, including Extraneal PD Solution Demonstration Kit or any of its components, Patient Training Tools, and Guides for the PD Nurse, free of charge from your Baxter Clinical Educator or Account Executive

Recommendations if you suspect hypoglycemia based on the patient's symptoms:

- Treatment must not be delayed since severe hypoglycemia may lead to life-threatening consequences including loss of consciousness, coma, permanent neurological damage and death
- The patient's blood glucose level must be measured immediately with either a laboratorybased method, if available or a glucose-specific monitor and test strips

6 | Important Risk information for All Patients

Additional Information Regarding the Use of Glucose Monitors and Test Strips

Glucose Monitor Manufacturers

The following list provides the names and contact information for manufacturers of today's most commonly used glucose monitors and test strips. It is included for reference only; you need to contact the manufacturer to ensure that your monitor and test strips use a method that does not cause maltose interference with test results. This list does not indicate that Baxter is recommending these products. You should call the manufacturer to verify if the monitor and test strips measure only glucose. The list is current as of January 2011.

Manufacturer	Contact Information
Abbott Diabetes Care	888-522-5226 www.abbottdiabetescare.com
Arkray	800-818-8877, Option #5 www.arkrayusa.com
Bayer Healthcare	800-348-8100 www.bayerdiabetes.com
Lifescan, Inc (Division of Johnson & Johnson)	800-524-SCAN 800-227-8862 www.lifescan.com
Roche Diagnostics	800-858-8072 www.roche-diagnostics.com www.accu-chek.com

Protect your patients. Take these steps below.

- If your patients are MedicAlert members, or members of another medical alert service, be sure to encourage them to update their medical information. MedicAlert can be reached at 1-888-633-4298 or at www.medicalert.org
- If your patients are not members of a medical alert service, encourage them to wear the
 Extraneal PD solution necklace or bracelet provided by Baxter in the Extraneal PD Solution
 Patient Kit this could help to save their lives
- Remind your patients to take their Patient Kit with them to any medical appointments and visits to the emergency room or hospital
- If you have any questions please contact your Baxter Account Representative at 1-888-736-2543
- If any of your patients need a replacement of any of the components in the Extraneal PD Solution Patient Kit such as a necklace and/or braclet, please have them contact HomeCare Services at 1-800-284-4060

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Additional Important Risk Information

- Extraneal PD solution is intended for intraperitoneal administration only. Not for intravenous injection
- Rarely, serious hypersensitivity reactions to Extraneal have been reported, such as toxic
 epidermal necrolysis, angioedema, serum sickness, erythema multiforme and leukocytoclastic
 vasculitis. If a serious reaction is suspected, discontinue Extraneal and institute appropriate
 treatment as clinically indicated
- Patients with insulin-dependent diabetes may require modification of insulin dosage following initiation of treatment
- A patient's volume status should be carefully monitored to avoid hyper- or hypovolemia and
 potentially severe consequences including congestive heart failure, volume depletion and
 hypovolemic shock. An accurate fluid balance record must be kept and the patient's body weight
 monitored
- In clinical trials, the most frequently reported adverse events occurring in ≥10% of patients, and
 more common in Extraneal PD solution patients than in control patients, were peritonitis, upper
 respiratory infection, hypertension, and rash. The most common treatment-related adverse
 event for Extraneal PD solution patients was skin rash. Additional adverse reactions have been
 reported in the post-marketing setting and are detailed in the full prescribing information

General Peritoneal Dialysis-Related

- Encapsulating peritoneal sclerosis (EPS) is a known, rare complication of peritoneal dialysis therapy. EPS has been reported in patients using peritoneal dialysis solutions including Extraneal PD solution. Infrequent but fatal outcomes have been reported
- Aseptic technique should be used throughout the peritoneal dialysis procedure to reduce the possibility of infection, such as peritonitis
- Fluid status, hematologic indices, blood chemistry, and electrolyte concentrations, including
 calcium, potassium, sodium, magnesium and bicarbonate, should be monitored periodically.
 Abnormalities in any of these parameters should be treated promptly under the care of a physician
- Overinfusion of peritoneal dialysis solution volume into the peritoneal cavity may be characterized by abdominal distention, feeling of fullness and/or shortness of breath. Treatment of overinfusion is to drain the peritoneal dialysis solution from the peritoneal cavity
- Treatment should be initiated and monitored under the supervision of a physician knowledgeable in the management of patients with renal failure

Please see full prescribing information.

For more information, contact your Baxter Account Executive, Clinical Educator or the Renal Clinical HelpLine at 1-888-RENALHELP (1-888-736-2543).

Additional training on glucose monitors and test strips is also available at www.glucosesafety.com.



Baxter Healthcare Corporation Renal Division 1620 Maukegan Road McSare Park, L. 60065 1-898-736-2540

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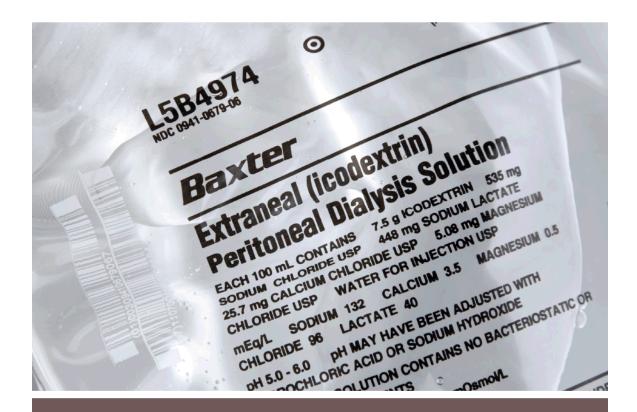
Attachment 2

EXTRANEAL Patient Training Tool

(8 pages)



Using **EXTRANEAL** (icodextrin) Peritoneal Dialysis Solution



Important Risk Information for All Patients
A PATIENT TRAINING TOOL

2 | Important Risk Information for All Patients

Important Risk Information for **Extraneal** (icodextrin) Peritoneal Dialysis Solution Patients Who Measure Blood Sugar (Glucose) Levels

Icodextrin or its by-products, such as maltose, cause some types of glucose monitors and/or test strips to give a false high glucose reading.

- A false high glucose reading could cause you or a clinician to give you more insulin than you need
- A false high glucose reading may mask a very low actual glucose reading and cause you
 to delay in correcting the low blood sugar
- · Both of these situations can cause life-threatening event
- Taking too much insulin or waiting too long to treat low blood sugar can cause you to
 have serious reactions including: loss of consciousness (passing out), coma, permanent
 neurological problems, and death
- You or your PD nurse must confirm that your glucose monitor(s) and test strip(s) will
 provide an accurate reading when using Extraneal PD solution
- DO NOT use glucose monitors or test strips that utilize glucose dehydrogenase
 pyrroloquinolinequinone (GDH-PQQ) or glucose-dye-oxidoreductase (GDO)-based
 methods. In addition, some blood glucose monitors or test strips that utilize glucose
 dehydrogenase flavin-adenine dinucleotide (GDH-FAD)-based methods must not be
 used. Blood glucose measurements must be done with a method that does not cause
 maltose interference with test results. ONLY glucose monitors and test strips that
 use glucose-specific methods must be used by patients on Extraneal PD
 solution
- Contact the manufacturer of your glucose monitor(s) and glucose test strip(s) and ask,
 "Does icodextrin or maltose interfere with my glucose monitor or test strip results?"
- You must notify your PD nurse and dialysis doctor before you change your home glucose monitor(s) or test strip(s)
- It's important to regularly check the test method of your glucose monitor(s) and test strips(s) while using Extraneal PD Solution. Also, if the manufacturer that makes your glucose monitor or test strips changes its methods of glucose measurement, be sure to contact your PD nurse of dialysis doctor to let them know. They can help you make the necessary adjustments

A Patient Training Tool | 3

Be sure to discuss this important information about glucose monitors with your family and friends. In an emergency, they will be able to make sure the nurse or doctor knows of the potential for false high glucose readings.

If you receive medical care from doctors or nurses other than those in your PD clinic, be sure to:

- Tell the doctors and nurses that you are using Extraneal PD solution, and that some glucose monitors and test strips may give a false high glucose reading
- Take the Extraneal PD Solution Patient Kit with you and give it to the doctor or nurse treating you. This kit has additional information related to glucose monitors for doctors and nurses
- Even if you stop using Extraneal PD solution, this will not resolve the potential for interference with glucose monitors or test strips. Your blood will have increased levels of icodextrin and maltose for approximately 14 days after stopping the use of Extraneal PD solution



Also present your wallet card, which explains that maltose may interfere with some glucose monitors. A wallet card is included here.

If you have any questions concerning glucose monitors and/or glucose test results, call your PD nurse or the Emergency Contact number shown on the reverse side of your wallet card.

See reverse side for warnings			
	Patient Name		
	TRANEAL (icodextrin) al dialysis solution		
Emergen	ncy Contact Information		
Nephrologist	()		
PD Nurse/Center	()		
Other Contact	()		
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4 | Important Risk Information for All Patients

Extraneal (icodextrin) PD Solution Patient Kit

Because you are on **Extraneal** PD solution, you'll soon receive an **Extraneal** PD Solution Patient Kit delivered to your home. This kit will contain tools you need to safely use **Extraneal** PD solution, along with information for clinicians on measuring blood glucose levels. Your PD nurse will also show you a sample of the kit and explain all of the components that are included.

Whenever you receive medical care – whether it's a scheduled appointment, an outpatient procedure or an emergency room visit – be sure to bring your Extraneal PD Solution Patient Kit along with you.

Included in the kit are a bracelet and a necklace that are designed to alert clinicians about the potential for incorrect blood glucose measurements. You should wear one or the other to alert clinicians so they use the right kind of glucose monitor and test strips for you.

The kit also contains important medical information for doctors, nurses and clinicians who provide care to you, other than those at your PD clinic. That's why it's so important to take the kit with you when receiving medical care. Simply give it to the nurse or physician who is seeing you.

Specifically, the "For Clinicians" portion of the kit contains letters to doctors, nurses and other professionals at a hospital or clinic. These letters describe the potential for interference with certain glucose monitors and test strips, and provide information to let them know the appropriate test methods to use. The patient chart sticker and hang tag provided in your kit are tools your clinician may want to use to remind them about your history, and can be attached to your medical chart.



Necklace

Protect Yourself. Take These Steps Below.

- If you are a MedicAlert member, or a member of another medical alert service, be sure to update your medical information to indicate that you use Extraneal PD solution. MedicAlert can be reached at 1-888-633-4298 or at www.medicalert.org
- If you are not a member of a medical alert service, be sure to wear the Extraneal PD solution bracelet or necklace provided by Baxter in your Extraneal PD Solution Patient Kit - this could help save your life
- Take your Extraneal PD Solution Patient Kit with you to any medical appointments and visits to the emergency room or hospital
- Inform your emergency contacts (e.g., friends and family) about this information

If you require a replacement kit, please order one through your Baxter HomeCare Services Representative (HCSR) Team at 1-800-284-4060.

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Glucose Monitor Manufacturers

The following list provides the names and contact information for manufacturers of today's most commonly used glucose monitors and test strips. It is included for reference only; you or your PD nurse need to contact the manufacturer to ensure that your monitor and test strips use a method that does not cause maltose interference with test results. This list does not indicate that Baxter is recommending these products. You or your PD nurse should call the manufacturer to verify if the monitor and/or test strip measures only glucose. The list is current as of January 2011.

Manufacturer	Contact Information
Abbott Diabetes Care	888-522-5226 www.abbottdiabetescare.com
Arkray	800-818-8877, Option #5 www.arkrayusa.com
Bayer Healthcare	800-348-8100 www.bayerdiabetes.com
Lifescan, Inc (Division of Johnson & Johnson)	800-227-8862 www.lifescan.com
Roche Diagnostics	800-858-8072 www.roche-diagnostics.com www.accu-chek.com

6 | Important Risk Information for All Patients

Important Risk Information for Extraneal (icodextrin) PD Solution

Do not use Extraneal PD solution if you:

- have a glycogen storage disease
- cannot tolerate maltose or isomaltose
- have severe lactic acidosis
- · are allergic to cornstarch or icodextrin

Extraneal may not be right for you. Before using **Extraneal** PD solution, tell your doctor about all your medical conditions, including if you have:

- a condition that affects your nutrition
- low potassium levels in your blood
- low magnesium levels in your blood
- had stomach area:
 - surgery in the past 30 days
 - tumors
 - open wounds or an infection
 - hernia

- · a lung or breathing problem
- · high calcium levels in your blood
- · had recent aortic graft surgery
- · have certain bowel conditions including:
 - colostomy or ileostomy
 - · frequent episodes of diverticulitis
 - · inflammatory bowel disease
- are pregnant or plan to become pregnant. It is not known if Extraneal PD solution will harm your unborn baby
- · are breast-feeding. It is not known if Extraneal PD solution passes into your breast milk

Extraneal can cause serious side effects, including:

- Serious allergic reactions. Tell your doctor or get medical help right away if you get any of these symptoms of a serious allergic reaction during treatment with Extraneal;
 - · swelling of your face, eyes, lips, tongue or mouth
 - · trouble swallowing or breathing
 - · skin rash, hives, sores in your mouth, on your eyelids, or in your eyes
 - · your skin blisters or peels

Common side effects of Extraneal PD solution include:

- Peritonitis, an infection in the peritoneal (abdominal) cavity, which is common in people on peritoneal dialysis. Tell your doctor right away if you have any pain, redness, fever, or cloudy drained fluid
- High blood pressure, nausea, headache, swelling, stomach area (abdomen) pain, chest pain, increased cough, upset stomach, flu-like symptoms, high blood sugar

These are not all the possible side effects of **Extraneal** PD solution. For more information, ask your doctor or dialysis center. Call your doctor for medical advice about side effects. You may report side effects to FDA at 1-800-FDA-1088 or at www.fda.gov/medwatch.

For additional information please see the Extraneal PD Solution Medication Guide.

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What you should know about Extraneal (icodextrin) PD Solution

- It's important to do your dialysis daily as your doctor has prescribed. Use Extraneal PD solution for your long dwell (8 to 16 hours).
- 2. It's equally important to do your PD exchanges just as you were taught, every time.
- To track your progress, record your weight, blood pressure, and how you feel every day. If there are any changes, be sure to let your PD nurse know right away.
- 4. Always keep some 1.5% dextrose solution at home. Why?
 - Using both 4.25% dextrose solution and Extraneal PD solution may cause you to become dehydrated, and your doctor may direct you to use 1.5% dextrose
 - If you are dehydrated, you may feel dizzy or become weak.
 Report these symptoms to your PD nurse or doctor immediately
- Talk to you PD nurse or dialysis doctor about adding any medications to Extraneal PD solution.
- 6. If you're a Continuous Ambulatory Peritoneal Dialysis (CAPD) patient
 and you notice a black-blue color in the drain line when switching from
 dextrose solutions to Extraneal PD solution don't worry. The color appears
 when Extraneal PD solution mixes with leftover povidone-iodine in the
 MiniCap Disconnect Cap.
- 7. If you have insulin-dependent diabetes, pay attention to your insulin dose and monitor your blood sugar levels when using **Extraneal** PD Solution. Here are a few guidelines to follow:
 - · Only use glucose-specific monitors and test strips to measure blood glucose levels
 - See Important Risk Information about glucose monitors and test strips on Page 2 and the Extraneal Medication Guide for additional cautionary measures
 - Be sure to check your blood sugar levels regularly
 - Discuss any changes needed to your current insulin dosage with your PD nurse or dialysis doctor. You may need to alter your insulin dose
- 8. Extraneal PD solution is best stored at room temperature: 68-77°F (20-25°C).
 - · Until you use it, keep Extraneal PD solution in its moisture barrier overpouch in its carton
 - Avoid high heat (104°F/40°C) and protect from freezing





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Attachment 3

EXTRANEAL Patient Kit

EXTRANEAL PATIENT KIT: DEAR PATIENT LETTER

Attention EXTRANEAL Patient

Important Information About EXTRANEAL (icodextrin)
Peritoneal Dialysis (PD) Solution and Measuring Blood Sugar

Dear Patient.

This Patient Kit was designed to help inform you about the risk of false blood glucose (sugar) readings while using **EXTRANEAL** (icodextrin) Peritoneal Dialysis (PD) solution. Your PD nurse should have reviewed the content of this kit, and what you need to know when measuring blood sugar. If your PD nurse has not reviewed this information with you, please call your PD nurse right away.

EXTRANEAL contains maltose, which can react with certain blood glucose monitors and test strips. Using **EXTRANEAL** may cause a false (incorrect) high blood sugar reading or may hide a blood sugar reading that is actually very low. Do not use any blood glucose monitors or test strips that use:

- glucose dehydrogenase pyrroloquinolinequinone (GDH-PQQ)
- · glucose-dye-oxidoreductase (GDO)
- glucose dehydrogenase flavin-adenine dinucleotide (GDH-FAD) (some, but not all)

A false blood sugar reading could lead you to take too much insulin or wait too long to treat low blood sugar. You could have serious reactions including:

- · loss of consciousness (passing out)
- coma
- · permanent neurological problems
- death

Call the manufacturer of your blood glucose monitor and test strips to make sure that the maltose in **EXTRANEAL** will not affect your blood sugar test results. For a list of toll free numbers for glucose monitor and test strip manufacturers, see page 5 in the Patient Training Tool or go to www.qlucosesafety.com.

Your Patient Kit

Your Patient Kit contains materials to help you share important risk information with healthcare professionals that treat you. Please read the Patient Training Tool for important information you need to know while taking **EXTRANEAL**.

Your kit also contains a bracelet and necklace. Please wear one of these alerts <u>at all times</u> to help protect you in an emergency situation.

In addition, you should have received a wallet card during training from your PD nurse. Extra wallet cards are provided in your Patient Kit. Fill out the wallet card. It is important to always carry this card with you, as it can help you share this risk information.

Letters for you to give to the healthcare providers that see you outside of your PD clinic are also included. Bring your **EXTRANEAL** Patient Kit with you whenever you receive medical attention. This would include a scheduled appointment or emergency room or any hospital visit. Make family and friends aware of the kit and tell them to bring your kit to the hospital if you can not bring it yourself.

If you lose any of the items or need a replacement, please order these items though the Baxter HomeCare Services Representative Team. You may call 1-800-284-4060 to order.

Please see the enclosed Medication Guide for more safety information.

If you have any questions about **EXTRANEAL** PD solution or measuring blood sugar, please contact you PD nurse right away.

Sincerely,

Your Baxter Support Team

Please see Important Risk Information on reverse side and enclosed Medication Guide.

EXTRANEAL PATIENT KIT: DEAR PATIENT LETTER (continued)

INDICATION FOR PATIENTS

EXTRANEAL is indicated for a single daily exchange for the long (8- to 16-hour) dwell during continuous ambulatory peritoneal dialysis (CAPD) or automated peritoneal dialysis (APD) for the management of end-stage renal disease. **EXTRANEAL** is also indicated to improve (compared to 4.25% dextrose) long-dwell ultrafiltration and clearance of creatinine and urea nitrogen in patients with high average or greater transport characteristics, as defined using the peritoneal equilibration test (PET).

IMPORTANT RISK INFORMATION FOR PATIENTS

EXTRANEAL PD solution contains maltose, which can react with certain blood glucose (blood sugar) monitors and test strips.

- Using EXTRANEAL PD solution may cause a false (incorrect) high blood sugar reading or may hide a blood sugar reading that is actually very low. This kind of false reading means that your blood sugar may really be too low even though the test says that it is normal or high. This can lead to dangerous side effects
- Only use a glucose-specific monitor and test strips to monitor your blood glucose when being treated with EXTRANEAL and approximately 2 weeks after stopping EXTRANEAL
- If you are hospitalized or go to an emergency room, take your EXTRANEAL PD Solution Patient Kit along with
 you and tell the hospital staff that you use EXTRANEAL PD solution so that they use the right kind of blood
 glucose monitor and test strips for you
- Taking too much insulin or waiting too long to treat low blood sugar can cause you to have serious reactions including: loss of consciousness (passing out), coma, permanent neurological problems, or death

Do not use EXTRANEAL PD solution if you:

- · have a glycogen storage disease
- cannot tolerate maltose or isomaltose
- have severe lactic acidosis
- · are allergic to cornstarch or icodextrin

· a lung or breathing problem

high calcium levels in your blood

colostomy or ileostomy

have certain bowel conditions including:

frequent episodes of diverticulitis

inflammatory bowel disease

· had recent aortic graft surgery

EXTRANEAL may not be right for you. Before using **EXTRANEAL** PD solution, tell your doctor about all your medical conditions, including if you have:

- a condition that affects your nutrition
- · low potassium levels in your blood
- low magnesium levels in your blood
- had stomach area:
 - surgery in the past 30 days
 - tumors
 - · open wounds or an infection
 - hernia
- are pregnant or plan to become pregnant. It is not known if EXTRANEAL PD solution will harm your unborn baby
- · are breast-feeding. It is not known if EXTRANEAL PD solution passes into your breast milk

EXTRANEAL can cause serious side effects, including:

Serious allergic reactions. Tell your doctor or get medical help right away if you get any of these symptoms of a serious allergic reaction during treatment with **EXTRANEAL**;

- swelling of your face, eyes, lips, tongue or mouth
- trouble swallowing or breathing
- · skin rash, hives, sores in your mouth, on your eyelids, or in your eyes
- · your skin blisters and peels

Common side effects of EXTRANEAL PD solution include:

- Peritonitis, an infection in the peritoneal (abdominal) cavity, which is common in people on peritoneal dialysis. Tell your doctor right away if you have any pain, redness, fever, or cloudy drained fluid
- High blood pressure, nausea, headache, swelling, stomach area (abdomen) pain, chest pain, increased cough, upset stomach, flu-like symptoms, high blood sugar

These are not all the possible side effects of **EXTRANEAL** PD solution. For more information, ask your doctor or dialysis center. Call your doctor for medical advice about side effects. You may report side effects to FDA at 1-800-FDA-1088 or at www.fda.gov/medwatch.

For additional information please see the EXTRANEAL PD Solution Medication Guide.

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EXTRANEAL PATIENT KIT: WALLET CARD:

WARNING Potential for Incorrect Blood Glucose Reading

ONLY use glucose-specific monitors and test strips on this peritoneal dialysis patient. Some glucose monitors are not glucose-specific and cannot tell the difference between glucose and other sugars in the blood (e.g., maltose, a metabolite of icodextrin). Use laboratory-based methods, if available or a glucose-specific monitor and test strips.

DO NOT use glucose monitors or test strips that utilize glucose dehydrogenase pyrroloquinolinequinone (GDH-PQQ) or glucose-dye-oxidoreductase methods. In addition, some but not all monitors or test strips that utilize a glucose dehydrogenase flavin-adenine dinucleotide (GDH-FAD) method must not be used. Use of these methods may result in falsely elevated blood glucose readings in patients using **Extraneal** (icodextrin) Peritoneal Dialysis Solution due to maltose interference. Falsely elevated blood glucose readings may mask true hypoglycemia or lead to the erroneous diagnosis of hyperglycemia. Treatment decisions based on incorrect blood glucose readings may lead to life-threatening events.

Visit www.glucosesafety.com for additional information, including a glucose monitor compatibility list.

R	a	Y		P	r
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See revers	e side for warnings
	Patient Name
	TRANEAL (icodextrin) al dialysis solution
Emergend	cy Contact Information
Nephrologist	()
PD Nurse/Center	()
Other Contact	()
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EXTRANEAL PATIENT KIT: WEARABLE ITEMS:

Bracelet



EXTRANEAL PATIENT KIT: WEARABLE ITEMS (continued):

Pendant

FRONT BACK



WARNING Potential for incorrect blood glucose reading.

Contact 1-888-736-2543 option 1, or www.glucosesafety.com

EXTRANEAL PATIENT KIT: CHART STICKER

Potential for Incorrect Blood Glucose Readi

Is using EXTRANEAL (icodextrin) peritoneal dialysis solution

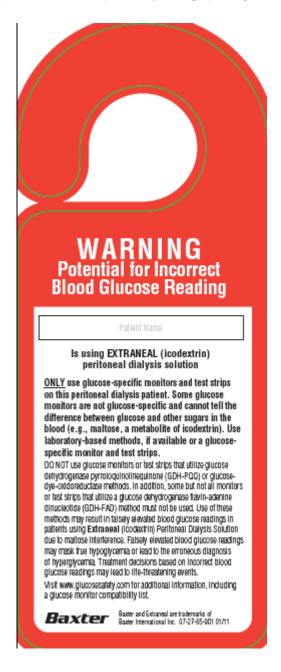


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<u>ONLY</u> use glucose-specific monitors and test strips on this peritoneal dialysis patient. Some glucose monitors are not glucose-specific and cannot tell the difference between glucose and other sugars in the blood (e.g., maltose, a metabolite of icodextrin). Use laboratory-based methods, if available or a glucose-specific monitor and test strips.

DO NOT use glucose monitors or test strips that utilize glucose dehydrogenase pyrroloquinolinequinone (GDH-PQQ) or glucose-dye-oxidoreductase methods. In addition, some but not all monitors or test strips that utilize a glucose dehydrogenase flavin-adenine dinucleotide (GDH-FAD) method must not be used. Use of these methods may result in falsely elevated blood glucose readings in patients using Extraneal (icodextrin) Peritoneal Dialysis Solution due to maltose interference. Falsely elevated blood glucose readings may mask true hypoglycemia or lead to the erroneous diagnosis of hyperglycemia. Treatment decisions based on incorrect blood glucose readings may lead to life-threatening events. Visit www.glucosesafety.com for additional information, including a glucose monitor compatibility list.

EXTRANEAL PATIENT KIT: MAGNETIC HANG TAG



EXTRANEAL PATIENT KIT: LETTERS TO HOSPITAL STAFF

Attention Hospital Physician WARNING Potential For Incorrect Blood Glucose Reading

November 2010

Dear Hospital Physician,

Baxter Healthcare Corporation would like to notify you of Important Safety Information involving all patients who use **EXTRANEAL** (icodextrin) Peritoneal Dialysis (PD) solution <u>and</u> who may require the use of blood glucose monitors and test strips.

Patients using EXTRANEAL (icodextrin) peritoneal dialysis solution may have incorrect blood glucose results when using particular blood glucose monitors and test strips.

ONLY use glucose monitors and test strips that are glucose-specific. Some glucose monitors are not glucose-specific and cannot tell the difference between glucose and other sugars in the blood (e.g., maltose, a metabolite of icodextrin). Use laboratory-based methods, if available or a glucose-specific monitor and test strips. Contact the manufacturer of the glucose monitors and test strips to determine the method that is used. Visit www.glucosesafety.com for additional information including a glucose monitor compatibility list.

The term "glucose-specific" applies to monitors or test strips that are not affected by the presence of maltose or certain other sugars. Because **EXTRANEAL** (icodextrin) PD solution results in elevated blood levels of maltose, only glucose-specific monitors and test strips should be used.

DO NOT use glucose monitors or test strips that utilize glucose dehydrogenase pyrroloquinolinequinone (GDH-PQQ) or glucose-dye-oxidoreductase (GDO) methods. In addition, some but not all monitors or test strips that utilize a glucose dehydrogenase flavin-adenine dinucleotide (GDH-FAD) method must not be used. Use of these methods may result in falsely elevated blood glucose readings in patients using EXTRANEAL (icodextrin) due to maltose interference. A blood glucose reading with these monitors that appears to be within the normal range in a patient on EXTRANEAL (icodextrin) may mask true hypoglycemia (low blood sugar). This would cause a patient or health care professional not to take the appropriate steps to bring the blood sugar into a normal range. A falsely elevated blood glucose reading could cause a patient to get more insulin than needed. Both of these situations can lead to life-threatening events, including loss of consciousness, coma, permanent neurological damage or death.

Additional considerations for patients who use EXTRANEAL (icodextrin) PD solution:

- Discontinuing EXTRANEAL (icodextrin) PD solution use will not immediately address the risk for the potential
 interference with glucose monitors. Falsely elevated glucose levels may result up to two weeks following cessation of
 EXTRANEAL (icodextrin).
- To determine what type of method is used for monitoring glucose levels, review the labeling for BOTH the glucose monitor and the test strips used. If in doubt, contact the manufacturer of the glucose monitors and test strips to determine the method that is used.
- If your hospital uses electronic medical records, the above information describing the potential for interference with blood glucose monitors or test strips needs to be entered in a suitable field that is readily apparent to all users.

For further information, refer to **EXTRANEAL** (icodextrin) PD solution prescribing information enclosed or visit www.glucosesafety.com.

I hope this information is helpful to you. If you have additional questions about **EXTRANEAL** (icodextrin) PD solution, please contact your Baxter Renal Representative.

Sincerely,

James A. Sloand, MD Senior Medical Director, Medical Affairs Baxter Healthcare Corporation

Please see Important Risk Information on reverse side and enclosed Full Prescribing Information.

IMPORTANT RISK INFORMATION

EXTRANEAL (icodextrin) Peritoneal Dialysis (PD) Solution

Dangerous Drug-Device Interaction

Only use glucose-specific monitors and test strips to measure blood glucose levels in patients using EXTRANEAL (locdextrin) Peritoneal Dialysis Solution. Blood glucose monitoring devices using glucose dehydrogenase pyrroloquinolinequinone (GDH-PQQ) or glucose-dye-oxidoreductase (GDO)-based methods must not be used. In addition, some blood glucose monitoring systems using glucose dehydrogenase flavin-adenine dinucleotide (GDH-PAD)-based methods must not be used. Use of GDH-PQQ, GDO, and GDH-PAD-based glucose monitors and test strips has resulted in faisely elevated glucose readings (due to the presence of matose, see PRECAUTIONS/Drugit_aboratory Test interactions). Falsely elevated glucose readings have led patients or health care providers to withhold treatment of hypoglycemia or to administer insulin inappropriately. Both of these situations have resulted in unrecognized hypoglycemia, which has led to loss of consciousness, coma, permanent neurological damage, and death, Plasma levels of EXTRANEAL (locdextrin) and its metabotiles return to baseline within approximately 14 days following cessation of EXTRANEAL (locdextrin) administration. Therefore faisely elevated glucose levels may be measured up to two weeks following cessation of EXTRANEAL (locdextrin) therapy when GDH-PQQ, GDO, and GDH-FAD based blood dlucose monitors and test strips are used.

Because GDH-PQQ, GDO, and GDH-FAD-based blood glucose monitors may be used in hospital settings, it is important that the health care providers of peritoneal dialysis patients using EXTRANEAL (loodextrin) carefully review the product information of the blood glucose testing system, including that of test strips, to determine if the system is appropriate for use with EXTRANEAL (loodextrin).

To avoid improper insulin administration, educate patients to alert health care providers of this interaction whenever they are admitted to the hospital

The manufacturer(s) of the monitor and test strips should be contacted to determine if loodextrin or mailtose causes interference or falsely elevated glucose readings. For a list of toil free numbers for glucose monitor and test strip manufacturers, please contact the Baxter Renal Clinical HelpLine 1-888-RENAL-HELP or visit www.glucosesafety.com.

EXTRANEAL PD solution is contraindicated in patients with a known allergy to comstarch or icodextrin, in patients with mailose or isomatiose intolerance, in patients with pre-existing severe lactic acidosis, and in patients with glycogen storage disease.

EXTRANEAL PD solution is intended for intraperitoneal administration only. Not for intravenous injection.

Rarely, serious hypersensitivity reactions to EXTRANEAL have been reported, such as toxic epidermal necrolysis, angioedema, serum sickness, erythema multiforme, and leukocytoclastic vasculitis. If a serious reaction is suspected, discontinue EXTRANEAL and institute appropriate treatment as clinically indicated.

Patients with insulin-dependent diabetes may require modification of insulin dosage following initiation of treatment

A patient's volume status should be carefully monitored to avoid hyper- or hypovolemia and potentially severe consequences including congestive heart failure, volume depletion and hypovolemic shock. An accurate fluid balance record must be kept and the patient's body weight monitored.

In clinical trials, the most frequently reported adverse events occurring in ≥ 10% of patients, and more common in EXTRANEAL PD solution patients than in control patients, were peritoritis, upper respiratory infection, hypertension, and rash. The most common treatment-related adverse event for EXTRANEAL PD solution patients was skin rash. Additional adverse reactions have been reported in the post-marketing setting and are detailed in the full prescribing information.

General Peritoneal Dialysis-Related

Encapsulating Pertioneal Sciences (EPS) is a known, rare complication of pertioneal dialysis therapy. EPS has been reported in patients using peritoneal dialysis solutions including EXTRANEAL PD solution. Infrequent but fatal outcomes have been reported.

Aseptic technique should be used throughout the peritoneal dialysis procedure to reduce the possibility of infection, such as peritonitis.

Fluid status, hematologic indices, blood chemistry, and electrolyte concentrations, including calcium, potassium, sodium, magnesium and bicarbonale, should be monitored periodically. Abnormalities in any of these parameters should be treated promptly under the care of a physician.

Overinfusion of peritoneal dialysis solution volume into the peritoneal cavity may be characterized by abdominal distention, feeling of fullness and/or shortness of breath. Treatment of overinfusion is to drain the peritoneal dialysis solution from the peritoneal cavity.

Treatment should be initiated and monitored under the supervision of a physician knowledgeable in the management of patients with renal failure.

Please see full prescribing information

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Attention Hospital Nurse WARNING Potential For Incorrect Blood Glucose Reading

November 2010

Dear Hospital Nurse,

Baxter Healthcare Corporation would like to notify you of Important Safety Information involving all patients who use **EXTRANEAL** (icodextrin) Peritoneal Dialysis (PD) solution <u>and</u> who may require the use of blood glucose monitors and test strips.

Patients using EXTRANEAL (icodextrin) peritoneal dialysis solution may have incorrect blood glucose results when using particular blood glucose monitors and test strips.

ONLY use glucose monitors and test strips that are glucose-specific. Some glucose monitors are not glucose-specific and cannot tell the difference between glucose and other sugars in the blood (e.g., maltose, a metabolite of icodextrin). Use laboratory-based methods, if available or a glucose-specific monitor and test strips. Contact the manufacturer of the glucose monitors and test strips to determine the method that is used. Visit www.glucosesafety.com for additional information including a glucose monitor compatibility list.

The term "glucose-specific" applies to monitors or test strips that are not affected by the presence of maltose or certain other sugars. Because **EXTRANEAL** (icodextrin) PD solution results in elevated blood levels of maltose, only glucose-specific monitors and test strips should be used.

DO NOT use glucose monitors or test strips that utilize glucose dehydrogenase pyrroloquinolinequinone (GDH-PQQ) or glucose-dye-oxidoreductase (GDO) methods. In addition, some but not all monitors or test strips that utilize a glucose dehydrogenase flavin-adenine dinucleotide (GDH-FAD) method must not be used. Use of these methods may result in falsely elevated blood glucose readings in patients using EXTRANEAL (icodextrin) due to maltose interference. A blood glucose reading with these monitors that appears to be within the normal range in a patient on EXTRANEAL (icodextrin) may mask true hypoglycemia (low blood sugar). This would cause a patient or health care professional not to take the appropriate steps to bring the blood sugar into a normal range. A falsely elevated blood glucose reading could cause a patient to get more insulin than needed. Both of these situations can lead to life-threatening events, including loss of consciousness, coma, permanent neurological damage or death.

Additional considerations for patients who use EXTRANEAL (icodextrin) PD solution:

- Discontinuing EXTRANEAL (icodextrin) PD solution use will not immediately address the risk for the potential interference with glucose monitors. Falsely elevated glucose levels may result up to two weeks following cessation of EXTRANEAL (icodextrin).
- To determine what type of method is used for monitoring glucose levels, review the labeling for BOTH the glucose monitor and the test strips used. If in doubt, contact the manufacturer of the glucose monitors and test strips to determine the method that is used.
- 3. If your hospital uses electronic medical records, the above information describing the potential for interference with blood glucose monitors or test strips needs to be entered in a suitable field that is readily apparent to all users.

For further information, refer to **EXTRANEAL** (icodextrin) PD solution prescribing information enclosed or visit www.glucosesafety.com.

I hope this information is helpful to you. If you have additional questions about **EXTRANEAL** (icodextrin) PD solution, please contact your Baxter Renal Representative.

Sincerely,

James A. Sloand, MD Senior Medical Director, Medical Affairs Baxter Healthcare Corporation

Please see Important Risk Information on reverse side and enclosed Full Prescribing Information.

IMPORTANT RISK INFORMATION EXTRANEAL (icodexxrin) Peritoneal Dialysis (PD) Solution

Dangerous Drug-Device Interaction

Only use glucose-specific monitors and test strips to measure blood glucose levels in patients using EXTRANEAL (icodextrin) Pertitorial Dialysis Solution. Blood glucose monitoring devices using glucose dehydrogenase pyrroloquinolinequinone (GDH-PQQ) or glucose-dye-oxidoreductase (GDO)-based methods must not be used. In addition, some blood glucose monitoring systems using glucose dehydrogenase flavin-adenine dinucleotide (GDH-FAD)-based methods must not be used. Use of GDH-PQQ, GDO, and GDH-PAD-based glucose monitors and test strips has resuited in falsely elevated glucose readings (due to the presence of matose, see PRECALTIONS/Drugit.aboratory Test interactions). Palsely elevated glucose readings have led patients or health care providers to withhold treatment of hypoglycemia or to administer insulin inappropriately. Both of these situations have resulted in unrecognized hypoglycemia, which has ted to loss of consciousness, coma, permanent neurological damage, and death. Plasma levels of EXTRANEAL (loodextrin) and its metabolites return to baseline within approximately 14 days following cessation of EXTRANEAL (loodextrin) therapy when GDH-PQQ, GDO, and GDH-FAD based blood glucose monitors and test strips are used.

Because GDH-PQQ, GDO, and GDH-FAD-based blood glucose monitors may be used in hospital settings, it is important that the health care providers of peritoneal dialysis patients using EXTRANEAL (loodextrin) carefully review the product information of the blood glucose testing system, including that of test strips, to determine if the system is appropriate for use with EXTRANEAL (loodextrin).

To avoid improper insulin administration, educate patients to alert health care providers of this interaction whenever they are admitted to the hospital.

The manufacturer(s) of the monitor and test strips should be contacted to determine if loodextrin or mailose causes interference or falsely elevated glucose readings. For a list of toll the numbers for glucose monitor and test strip manufacturers, please contact the Baxter Renal Clinical HelpLine 1-838-RENAL-HELP or visit www.glucoses.afety.com.

EXTRANEAL PD solution is contraindicated in patients with a known allergy to comstarch or icodextrin, in patients with mailose or isomatiose infolerance, in patients with pre-existing severe lactic acidosis, and in patients with glycogen storage disease.

EXTRANEAL PD solution is intended for intrapertioneal administration only. Not for intravenous injection.

Rarely, serious hypersensitivity reactions to EXTRANEAL have been reported, such as toxic epidermal necrolysis, angloedema, serum sickness, erythema multiforme, and leukocytoclastic vasculitis. If a serious reaction is suspected, discontinue EXTRANEAL and institute appropriate treatment as clinically indicated.

Patients with insulin-dependent diabetes may require modification of insulin dosage following initiation of treatment.

A patient's volume status should be carefully monitored to avoid hyper- or hypovolemia and potentially severe consequences including congestive heart failure, volume depietion and hypovolemic shock. An accurate fluid balance record must be kept and the patient's body weight monitored.

In clinical trials, the most frequently reported adverse events occurring in ≥ 10% of patients, and more common in EXTRANEAL PD solution patients than in control patients, were pertonitis, upper respiratory infection, hypertension, and rash. The most common treatment-related adverse event for EXTRANEAL PD solution patients was shin rash. Additional adverse reactions have been reported in the post-marketing setting and are detailed in the full prescribing information.

General Peritoneal Dialysis-Related

Encapsulating Peritoneal Scierosis (EPS) is a known, rare complication of peritoneal dialysis therapy. EPS has been reported in patients using peritoneal dialysis solutions including EXTRANEAL PD solution. Infrequent but fatal outcomes have been reported.

Aseptic technique should be used throughout the peritoneal dialysis procedure to reduce the possibility of infection, such as peritonitis.

Fluid status, hematologic indices, blood chemistry, and electrolyte concentrations, including calcium, potassium, sodium, magnesium and bicarbonate, should be monitored periodically. Abnormalities in any of these parameters should be treated promptly under the care of a physician.

Overinfusion of peritoneal dialysis solution volume into the peritoneal cavity may be characterized by abdominal distention, feeling of fullness and/or shortness of breath. Treatment of overinfusion is to drain the peritoneal dialysis solution from the peritoneal cavity.

Treatment should be initiated and monitored under the supervision of a physician knowledgeable in the management of patients with renal failure.

Please see full prescribing information.

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Attention Hospital Pharmacy WARNING Potential For Incorrect Blood Glucose Reading

November 2010

Dear Director of Pharmacy,

Baxter Healthcare Corporation would like to notify you of Important Safety Information involving all patients who use **EXTRANEAL** (icodextrin) Peritoneal Dialysis (PD) solution <u>and</u> who may require the use of blood glucose monitors and test strips.

Patients using EXTRANEAL (icodextrin) peritoneal dialysis solution may have incorrect blood glucose results when using particular blood glucose monitors and test strips.

ONLY use glucose monitors and test strips that are glucose-specific. Some glucose monitors are not glucose-specific and cannot tell the difference between glucose and other sugars in the blood (e.g., maltose, a metabolite of icodextrin). Use laboratory-based methods, if available or a glucose-specific monitor and test strips. Contact the manufacturer of the glucose monitors and test strips to determine the method that is used. Visit www.glucosesafety.com for additional information including a glucose monitor compatibility list.

The term "glucose-specific" applies to monitors or test strips that are not affected by the presence of maltose or certain other sugars. Because **EXTRANEAL** (icodextrin) PD solution results in elevated blood levels of maltose, only glucose-specific monitors and test strips should be used.

DO NOT use glucose monitors or test strips that utilize glucose dehydrogenase pyrroloquinolinequinone (GDH-PQQ) or glucose-dye-oxidoreductase (GDO) methods. In addition, some but not all monitors or test strips that utilize a glucose dehydrogenase flavin-adenine dinucleotide (GDH-FAD) method should not be used. Use of these methods may result in falsely elevated blood glucose readings in patients using EXTRANEAL (icodextrin) due to maltose interference. A blood glucose reading with these monitors that appears to be within the normal range in a patient on EXTRANEAL (icodextrin) may mask true hypoglycemia (low blood sugar). This would cause a patient or health care professional not to take the appropriate steps to bring the blood sugar into a normal range. A falsely elevated blood glucose reading could cause a patient to get more insulin than needed. Both of these situations can lead to life-threatening events, including loss of consciousness, coma, permanent neurological damage or death.

Additional considerations for patients who use EXTRANEAL (icodextrin) PD solution:

- Discontinuing EXTRANEAL (icodextrin) PD solution use will not immediately address the risk for the potential interference with glucose monitors. Falsely elevated glucose levels may result up to two weeks following cessation of EXTRANEAL (icodextrin).
- To determine what type of method is used for monitoring glucose levels, review the labeling for BOTH the glucose monitor and the test strips used. If in doubt, contact the manufacturer of the glucose monitors and test strips to determine the method that is used.
- 3. If your hospital uses electronic medical records, the above information describing the potential for interference with blood glucose monitors or test strips needs to be entered in a suitable field that is readily apparent to all users.

For further information, refer to **EXTRANEAL** (icodextrin) PD solution prescribing information enclosed or visit www.qlucosesafety.com.

I hope this information is helpful to you. If you have additional questions about **EXTRANEAL** (icodextrin) PD solution, please contact your Baxter Renal Representative.

Sincerely,

James A. Sloand, MD Senior Medical Director, Medical Affairs Baxter Healthcare Corporation

Please see Important Risk Information on reverse side and enclosed Full Prescribing Information.

IMPORTANT RISK INFORMATION EXTRANEAL (icodextrin) Peritorieal Dialysis (PD) Solution

Dangerous Drug-Device Interaction

Only use glucose-specific monitors and test strips to measure blood glucose levels in patients using EXTRANEAL (locdextrin) Pertinneal Dialysis Solution. Blood glucose monitoring devices using glucose dehydrogenase pyrroloquinolinequinone (GDH-PQQ) or glucose-dye-oxidoreductase (GDO)-based methods must not be used. In addition, some blood glucose monitoring systems using glucose dehydrogenase flavin-adenine dinucleotide (GDH-FAD)-based methods must not be used. Use of GDH-PQQ, GDO, and GDH-FAD-based glucose monitors and test strips has resulted in falsely elevated glucose readings (due to the presence of maitose, see PRECAUTIONS/Drugit.aboratory Test interactions). Falsely elevated glucose readings have led patients or health care providers to withhold treatment of hypoglycemia or to administer insulin inappropriately. Both of these situations have resulted in unrecognized hypoglycemia, which has ted to loss of consciousness, coma, permanent neurological damage, and death. Plasma levels of EXTRANEAL (loodextrin) and its metabolites return to baseline within approximately 14 days following cessation of EXTRANEAL (loodextrin) therapy when GDH-PQQ, GDO, and GDH-FAD based blood glucose monitors and test strips are used.

Because GDH-PQQ, GDO, and GDH-FAD-based blood glucose monitors may be used in hospital settings, it is important that the health care providers of peritoneal dialysis patients using EXTRANEAL (loodextrin) carefully review the product information of the blood glucose testing system, including that of test strips, to determine if the system is appropriate for use with EXTRANEAL (loodextrin).

To avoid improper insulin administration, educate patients to alert health care providers of this interaction whenever they are admitted to the hospital.

The manufacturer(s) of the monitor and test strips should be contacted to determine if loodextrin or mailtose causes interference or faisely elevated glucose readings. For a list of toll the numbers for glucose monitor and test strip manufacturers, please contact the Baxter Renal Clinical HelpLine 1-838-RENAL-HELP or visit www.glucoses.afety.com.

EXTRANEAL PD solution is contraindicated in patients with a known allergy to comstarch or icodextrin, in patients with mailose or isomatiose infolerance, in patients with pre-existing severe lactic acidosis, and in patients with glycogen storage disease.

EXTRANEAL PD solution is intended for intrapertioneal administration only. Not for intravenous injection.

Rarely, serious hypersensitivity reactions to EXTRANEAL have been reported, such as toxic epidermal necrolysis, angloedema, serum sickness, erythema multiforme, and leukocytoclastic vasculitis. If a serious reaction is suspected, discontinue EXTRANEAL and institute appropriate treatment as clinically indicated.

Patients with insulin-dependent diabetes may require modification of insulin dosage following initiation of treatment.

A patient's volume status should be carefully monitored to avoid hyper- or hypovolemia and potentially severe consequences including congestive heart failure, volume depletion and hypovolemic shock. An accurate fluid balance record must be kept and the patient's body weight monitored.

In clinical trials, the most frequently reported adverse events occurring in ≥ 10% of patients, and more common in EXTRANEAL PD solution patients than in control patients, were pertionitis, upper respiratory infection, hypertension, and rash. The most common treatment-related adverse event for EXTRANEAL PD solution patients was skin rash. Additional adverse reactions have been reported in the post-marketing setting and are detailed in the full prescribing information.

General Peritoneal Dialysis-Related

Encapsulating Pertinueal Scienosis (EPS) is a known, rare complication of pertinueal dialysis therapy. EPS has been reported in patients using pertinueal dialysis solutions including EXTRANEAL PD solution. Infrequent but fatal outcomes have been reported.

Aseptic technique should be used throughout the peritoneal dialysis procedure to reduce the possibility of infection, such as peritonitis.

Fluid status, hematologic indices, blood chemistry, and electrolyte concentrations, including calcium, potassium, sodium, magnesium and bicarbonate, should be monitored periodically. Abnormalities in any of these parameters should be treated promptly under the care of a physician.

Overinfusion of peritoneal dialysis solution volume into the peritoneal cavity may be characterized by abdominal distention, feeling of fullness and/or shortness of breath. Treatment of overinfusion is to drain the peritoneal dialysis solution from the peritoneal cavity.

Treatment should be initiated and monitored under the supervision of a physician knowledgeable in the management of patients with renal failure.

Please see full prescribing information.

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Attention Laboratory Services WARNING Potential For Incorrect Blood Glucose Reading

November 2010

Dear Director of Laboratory Services,

Baxter Healthcare Corporation would like to notify you of Important Safety Information involving all patients who use **EXTRANEAL** (icodextrin) Peritoneal Dialysis (PD) solution <u>and</u> who may require the use of blood glucose monitors and test strips.

Patients using EXTRANEAL (icodextrin) peritoneal dialysis solution may have incorrect blood glucose results when using particular blood glucose monitors and test strips.

ONLY use glucose monitors and test strips that are glucose-specific. Some glucose monitors are not glucose-specific and cannot tell the difference between glucose and other sugars in the blood (e.g., maltose, a metabolite of icodextrin). Use laboratory-based methods, if available or a glucose-specific monitor and test strips. Contact the manufacturer of the glucose monitors and test strips to determine the method that is used. Visit www.glucosesafety.com for additional information including a glucose monitor compatibility list.

The term "glucose-specific" applies to monitors or test strips that are not affected by the presence of maltose or certain other sugars. Because **EXTRANEAL** (icodextrin) PD solution results in elevated blood levels of maltose, only glucose-specific monitors and test strips should be used.

DO NOT use glucose monitors or test strips that utilize glucose dehydrogenase pyrroloquinolinequinone (GDH-PQQ) or glucose-dye-oxidoreductase (GDO) methods. In addition, some but not all monitors or test strips that utilize a glucose dehydrogenase flavin-adenine dinucleotide (GDH-FAD) method must not be used. Use of these methods may result in falsely elevated blood glucose readings in patients using EXTRANEAL (icodextrin) due to maltose interference. A blood glucose reading with these monitors that appears to be within the normal range in a patient on EXTRANEAL (icodextrin) may mask true hypoglycemia (low blood sugar). This would cause a patient or health care professional not to take the appropriate steps to bring the blood sugar into a normal range. A falsely elevated blood glucose reading could cause a patient to get more insulin than needed. Both of these situations can lead to life-threatening events, including loss of consciousness, coma, permanent neurological damage or death.

Additional considerations for patients who use EXTRANEAL (icodextrin) PD solution:

- Discontinuing EXTRANEAL (icodextrin) PD solution use will not immediately address the risk for the potential interference with glucose monitors. Falsely elevated glucose levels may result up to two weeks following cessation of EXTRANEAL (icodextrin).
- To determine what type of method is used for monitoring glucose levels, review the labeling for BOTH the glucose monitor and the test strips used. If in doubt, contact the manufacturer of the glucose monitors and test strips to determine the method that is used.
- 3. If your hospital uses electronic medical records, the above information describing the potential for interference with blood glucose monitors or test strips needs to be entered in a suitable field that is readily apparent to all users.

For further information, refer to **EXTRANEAL** (icodextrin) PD solution prescribing information enclosed or visit www.qlucosesafety.com.

I hope this information is helpful to you. If you have additional questions about **EXTRANEAL** (icodextrin) PD solution, please contact your Baxter Renal Representative.

Sincerely,

James A. Sloand, MD Senior Medical Director, Medical Affairs Baxter Healthcare Corporation

Please see Important Risk Information on reverse side and enclosed Full Prescribing Information.

IMPORTANT RISK INFORMATION

EXTRANEAL (icodextrin) Peritoneal Dialysis (PD) Solution

Dangerous Drug-Device Interaction

Only use glucose-specific monitors and test strips to measure blood glucose levels in patients using EXTRANEAL (locdextrin) Pertitioneal Dialysis Solution. Blood glucose monitoring devices using glucose dehydrogenase pyrroloquinolinequinone (GDH-PQQ) or glucose-dye-oxidioreductase (GDO)-based methods must not be used. In addition, some blood glucose monitoring systems using glucose dehydrogenase flavin-adenine dinucleotide (GDH-FAD)-based methods must not be used. Use of GDH-PQQ, QDO, and GDH-FAD-based glucose enonitors and test strips has resulted in faisely elevated glucose readings (due to the presence of maltose, see PRECAUTIONS/Drugit.aboratory Test interactions). Falsey elevated glucose readings have led patients or health care providers to withhold treatment of hypoglycemia or to administer insulin inappropriately. Both of these situations have resulted in unrecognized mypoglycemia, which has led to loss of consciousness, coma, permanent neurological damage, and death. Plasma levels of EXTRANEAL (locdextrin) and its metabolites return to baseline within approximately 14 days following cessation of EXTRANEAL (locdextrin) administration. Therefore falsely elevated glucose levels may be measured up to two weeks following cessation of EXTRANEAL (locdextrin) therapy when GDH-PQQ, GDO, and GDH-FAD based blood qlucose monitors and test strips are used.

Because GDH-PQQ, GDO, and GDH-FAD-based blood glucose monitors may be used in hospital settings, it is important that the health care providers of peritoneal dialysis patients using EXTRANEAL (loodextrin) carefully review the product information of the blood glucose testing system, including that of test strips, to determine if the system is appropriate for use with EXTRANEAL (loodextrin).

To avoid improper insulin administration, educate patients to alert health care providers of this interaction whenever they are admitted to the hospital.

The manufacturer(s) of the monitor and test strips should be contacted to determine if loodextrin or mailtose causes interference or falsely elevated glucose readings. For a list of toll free numbers for glucose monitor and test strip manufacturers, please contact the Baxter Renal Clinical HelpLine 1-888-RENAL-HELP or visit www.glucosesafety.com.

EXTRANEAL PD solution is contraindicated in patients with a known allergy to comstarch or icodextrin, in patients with mailose or isomatiose intolerance, in patients with pre-existing severe lactic acidosis, and in patients with glycogen storage disease.

EXTRANEAL PD solution is intended for intraperitoneal administration only. Not for intravenous injection

Rarely, serious hypersensitivity reactions to EXTRANEAL have been reported, such as toxic epidermal necrolysis, angloedema, serum sickness, erythema multiforme, and leukocytoclastic vasculitis. If a serious reaction is suspected, discontinue EXTRANEAL and institute appropriate treatment as clinically indicated.

Patients with insulin-dependent diabetes may require modification of insulin dosage following initiation of treatment

A patient's volume status should be carefully monitored to avoid hyper- or hypovolemia and potentially severe consequences including congestive heart failure, volume depietion and hypovolemic shock. An accurate fluid balance record must be kept and the patient's body weight monitored.

In clinical trials, the most frequently reported adverse events occurring in ≥ 10% of patients, and more common in EXTRANEAL PD solution patients than in control patients, were pertonitis, upper respiratory infection, hypertension, and rash. The most common treatment-related adverse event for EXTRANEAL PD solution patients was skin rash. Additional adverse reactions have been reported in the post-marketing setting and are detailed in the full prescribing information.

General Peritoneal Dialysis-Related

Encapsulating Peritoneal Scienosis (EPS) is a known, rare complication of peritoneal dialysis therapy. EPS has been reported in patients using peritoneal dialysis solutions including EXTRANEAL PD solution. Infrequent but fatal outcomes have been reported.

Aseptic technique should be used throughout the pertioneal dialysis procedure to reduce the possibility of infection, such as pertionitis.

Fluid status, hematologic indices, blood chemistry, and electrolyte concentrations, including calcium, potassium, sodium, magnesium and bicarbonate, should be monitored periodically. Abnormalities in any of these parameters should be treated promptly under the care of a physician.

Overinfusion of peritoneal dialysis solution volume into the peritoneal cavity may be characterized by abdominal distention, feeling of fullness and/or shortness of breath. Treatment of overinfusion is to drain the peritoneal dialysis solution from the peritoneal cavity.

Treatment should be initiated and monitored under the supervision of a physician knowledgeable in the management of patients with renal failure.

Please see full prescribing information.

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Attention Hospital Admissions Staff WARNING Potential For Incorrect Blood Glucose Reading

November 2010

Dear Hospital Admissions Staff,

Baxter Healthcare Corporation would like to notify you of Important Safety Information involving all patients who use **EXTRANEAL** (icodextrin) Peritoneal Dialysis (PD) solution <u>and</u> who may require the use of blood glucose monitors and test strips.

Patients using EXTRANEAL (icodextrin) peritoneal dialysis solution may have incorrect blood glucose results when using particular blood glucose monitors and test strips.

ONLY use glucose monitors and test strips that are glucose-specific. Some glucose monitors are not glucose-specific and cannot tell the difference between glucose and other sugars in the blood (e.g., maltose, a metabolite of icodextrin). Use laboratory-based methods, if available or a glucose-specific monitor and test strips. Contact the manufacturer of the glucose monitors and test strips to determine the method that is used. Visit www.glucosesafety.com for additional information including a glucose monitor compatibility list.

The term "glucose-specific" applies to monitors or test strips that are not affected by the presence of maltose or certain other sugars. Because **EXTRANEAL** (icodextrin) PD solution results in elevated blood levels of maltose, only glucose-specific monitors and test strips should be used.

DO NOT use glucose monitors or test strips that utilize glucose dehydrogenase pyrroloquinolinequinone (GDH-PQQ) or glucose-dye-oxidoreductase (GDO) methods. In addition, some but not all monitors or test strips that utilize a glucose dehydrogenase flavin-adenine dinucleotide (GDH-FAD) method must not be used. Use of these methods may result in falsely elevated blood glucose readings in patients using EXTRANEAL (icodextrin) due to maltose interference. A blood glucose reading with these monitors that appears to be within the normal range in a patient on EXTRANEAL (icodextrin) may mask true hypoglycemia (low blood sugar). This would cause a patient or health care professional not to take the appropriate steps to bring the blood sugar into a normal range. A falsely elevated blood glucose reading could cause a patient to get more insulin than needed. Both of these situations can lead to life-threatening events, including loss of consciousness, coma, permanent neurological damage or death.

Additional considerations for patients who use EXTRANEAL (icodextrin) PD solution:

- Discontinuing EXTRANEAL (icodextrin) PD solution use will not immediately address the risk for the potential interference with glucose monitors. Falsely elevated glucose levels may result up to two weeks following cessation of EXTRANEAL (icodextrin).
- To determine what type of method is used for monitoring glucose levels, review the labeling for BOTH the glucose monitor and the test strips used. If in doubt, contact the manufacturer of the glucose monitors and test strips to determine the method that is used.
- 3. If your hospital uses electronic medical records, the above information describing the potential for interference with blood glucose monitors or test strips needs to be entered in a suitable field that is readily apparent to all users.

For further information, refer to **EXTRANEAL** (icodextrin) PD solution prescribing information enclosed or visit www.glucosesafety.com.

I hope this information is helpful to you. If you have additional questions about **EXTRANEAL** (icodextrin) PD solution, please contact your Baxter Renal Representative.

Sincerely,

James A. Sloand, MD Senior Medical Director, Medical Affairs Baxter Healthcare Corporation

Please see Important Risk Information on reverse side and enclosed Full Prescribing Information.

IMPORTANT RISK INFORMATION

EXTRANEAL (icodextrin) Peritoneal Dialysis (PD) Solution

Dangerous Drug-Device Interaction

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Because GDH-PQQ, GDO, and GDH-FAD-based blood glucose monitors may be used in hospital settings, it is important that the health care providers of peritoneal dialysis patients using EXTRANEAL (loodextrin) carefully review the product Information of the blood glucose testing system, including that of test strips, to determine if the system is appropriate for use with EXTRANEAL (lcodextrin)

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Treatment should be initiated and monitored under the supervision of a physician knowledgeable in the management of patients with renal fallure

Please see full prescribing information.

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EXTRANEAL PATIENT KIT: EXTRANEAL PACKAGE INSERT

Refer to NDA 21-312/S-021 or DailyMed for current Package Insert.

EXTRANEAL PATIENT KIT: EXTRANEAL MEDICATION GUIDE

Refer to NDA 21-321/S-021 or DailyMed for current Medication Guide.

This is a representation of an electronic record that was signed electronically and this page is the manifestation of the electronic signature.
/s/
MARY R SOUTHWORTH 02/25/2014